

KUZNETSOV, V.N., otv. red.; KHISMATOV, M.F., red.; ZAPLATINA, G.N., red.; MASLOV, M.D., red.

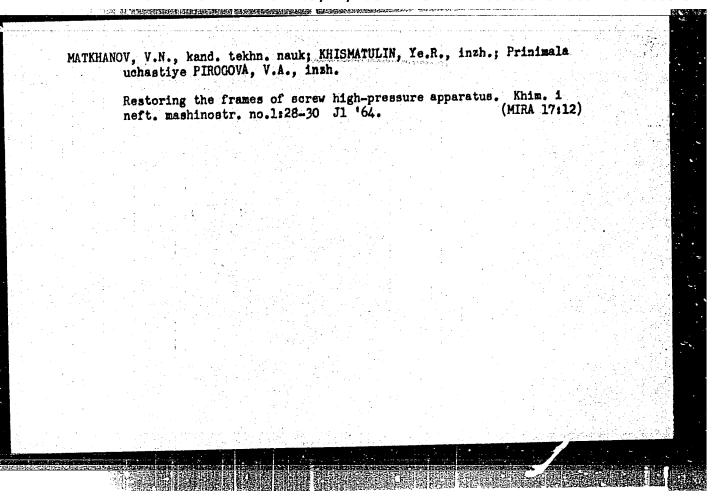
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[All-Ural Conference on the Problems of Gaography and Preservation of Nature, Materials of the Section on Economic and Geographic Regionalization] Materialy Vse-ural skogo soveshchaniia po voprosam geografii i okhrany prirody. Sektsiia ekonomiko-geograficheskgo raionirovaniia. Ufa, Bashkirskii filial Geograficheskogo ob-va SSSR, 1962. 80 p. (MIRA 17:7)

1. Vseural'skoye soveshchaniye po voprosam geografii i okhrany prirody, 6th. Ufa, 1961.

KHISMATOV, M.F.; MASLOV, M.D., kand. geogr. nauk, red.

[Cutline of the geography of Bashkiria] Ocherki po geografii Bashkirii. Ufa, Bashkirskii in-t usovershenstvovaniia uchitelei, 1963. 103 p. (MIRA 18:11)



"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722020009-9

EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) JD/IG/EM L 34838-66 SOURCE CODE: UR/0125/66/000/006/0031/0034 ACC NR: AP6021003 AUTHOR: Pimshteyn, P. G.; Lushpey, H. K.; Khismatulin, Ye. R. ORG: Irkutsk Division of the NIIKhimmash (Irkutskiy filial NIIKhimmasha) TITLE: The strength of welded multilayer high-pressure vessels, 1/0 SOURCE: Avtomaticheskaya svarka, no. 6, 1966, 31-34 TOPIC TAGS: high pressure vessel, welded vessel, multilayer vessel, prestressed vessel, vessel property ABSTRACT: Results are presented of the theoretical and experimental investigation of the prestressed state and strength of a welded, multilayer, high-pressure vessel made at the Irkutsk Division of the NIIKhimmash in 1964. The vessel shell was made of three sections, 1100, 1000 and 900 mm long, arc welded together along the circumference. Each shell section consisted of a central carbon steel pipe, 300 mm in diameter, and 7 close fitting steel jackets welded from prestretched, 6-mm steel sheets pressed tightly over the central pipe and each successive jacket. The steel had a tensile strength of 40 kg/mm² and a yield strength of 25 kg/mm²; the vessel was designed for a working pressure of 290 kg/cm². In hydrostatic pressure tests, plastic failure without fragmentation occurred at a pressure of 775 kg/mm², forming a longitudinal crack, 1300 mm long and 184 mm². The circumferencial welds made by automatic multilayer welding had a strength equal to that of the multilayer sections. 621.791:66.023/025 Card

ACCESSION NR: AP4027224

8/0184/64/000/002/0032/0034

AUTHORS: Khismatulin, Ye. R. (Engineer); Lushpey, M. K. (Engineer)

TITLE: Repairing damaged high-pressure casings by welding

SOURCE: Khimicheskoye mashinostroyeniye, no. 2, 1964, 32-34

TOPIC TAGS: welding, fusion welding, fracture welding, through-hole welding, casing welding, high-pressure device, steel, 25kh3NM steel, tensometry, magnetic defectoscopy, ultrasonic defectoscope

ABSTRACT: The experimental study of fracture welding and through-hole welding of steel 25Kh3NM made it possible to determine the most effective method for repairing heat exchangers and reactors. Simple fractures were repaired by the standard methods of fusion welding while the through-holes of large diameter were filled with plugs made of the same steel as the objects to be repaired, and were welded with Kh3M electrodes at 250-300C. This technique resulted in the appearance of cracks in the inner surface of the objects due to the greater hardness of welded areas. No cracking was observed when the steel 25Kh3NM sublayers were substituted for the plugs. The metal was preheated to the required temperature

Card 1/2

by electrical heaters placed inside the objects, which were subsequently heattreated in a gas oven. The repaired casings were tested by magnetic and ultrasonic defect-detection devices, and the structure of the welds was studied in polished sections. The repaired heat exchangers were also subjected to tensometric tests

at 20-cycle loading. The maximum hydraulic pressure applied was 500 atm (actual expected pressure is 320 atm). No defects were observed after the tests. Orig. art. has: 4 tables and 3 figures.

ASSOCIATION: none

ACCESSION NR: APLO27224

SUBMITTED: 00 DATE AQ: 17Apr64 ENGL: 00

SUB CODE: ML NO REF SOV: 000 OTHER: 000

Card 2/2

中心,我们也是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人

THOR: Kosterin. V. A.: Rzhevsk	『韓華氏師 점점 최고 희망 사람들이가 많은 하는 하는 사람들이 가는 하는 사람들이 가지 않는 것이다.	
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kG: none	And and the second seco	β
	ליב, dynamics of jets in transverse flow	during combustion
URCE: IVUZ. Aviatsionnaya tekh		
PIC TAGS: combustion, flame stopulation	tabilization, propulsion, afterburne	r, air breathing
STRACT: An experimental study	was made of flame stabilization by	means of a trans-
s preheated in a chamber by fue	i perpendicularly into a circular buel combustion, and the combustion,	oducts with the
iform combustible mixture. A f	section in which T-1 ^h kerosene was i fan-shaped hot air jet was discharge	ed into the burning
xture. The temperature, veloci	lty, and pressure profiles were meas ion zone. The results showed that t	ured to determine
e fan-shaped jets are steeper i	in the presence of combustion than i	n its absence, and
s obtained for calculating the	recirculation zones are larger. An jet trajectories and the maximum di of excess velocities in the zone of	ameter of the
		2.
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Khismatullina, A.

AUTHORS:

Arbuzov, B. A., Khismatullina, A. G.

62-2-6/28

TITLE:

On the Structure of the Resin Acids of Turpentine From Pinus Pithyusa in Pinus Insignis (O sostave smolyanykh

kislot zhivitsy pinus pithyusa y pinus insignis).

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958, Nr 2, pp. 166-173 (USSR).

ABSTRACT:

Numerous researchers for many decades dealt with the structure of the above-mentioned resin acids and their elimination. The investigation of these acids, however, meets with great difficulties due to their easy variability. The property of these acids to form mixed crystals also renders the investigation very difficult. After a number of successfully employed methods the discovery was made that a small quantity of resin acids, separate from each other, exists in the sap of various Coniferae. A new acid, palustric acid (reference 4) is now added to the already dispovered ones. As Garris (reference 5) already proved, abic ic acid is the primary acid. The elaboration of the quantite live methods of the determination of individual resin soid; of turpentine showed that individual resin acids which were eliminated from the sap (in

Card 1/2

5.3400

77067 SOV/62-59-12-11/43

AUTHORS:

Arbuzov, B. A., Khismatullina, A. O.

TITLE:

Diels-Alder Synthesis With Levopimaric Acid

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2126-2129 (USSR)

ABSTRACT:

Crude resin acids of the galipot, Pinus maritima, containing 40% levopimaric acid, were condensed with acrolein, acrylonitrile, vinyl acetate, and methyl acrylate, in dry ether under carbon dioxide at 40-60°, in sealed tubes. The obtained products were purified as cyclohexylamine or diacetoneamine salts:

C(I) COOH

$$H_3C \longrightarrow CH_3$$

$$CH_3 \longrightarrow CH_3$$

$$CH_$$

Card 1/3

Diels-Alder Synthesis With Levopimaric

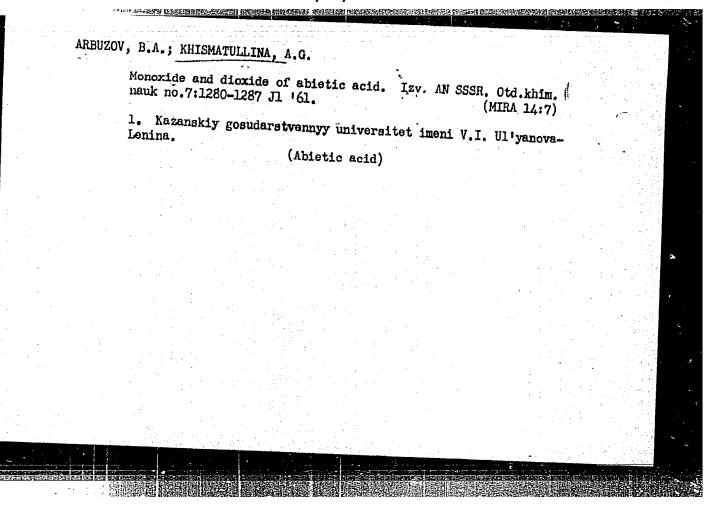
77067 SOV/62-59-12-11/43

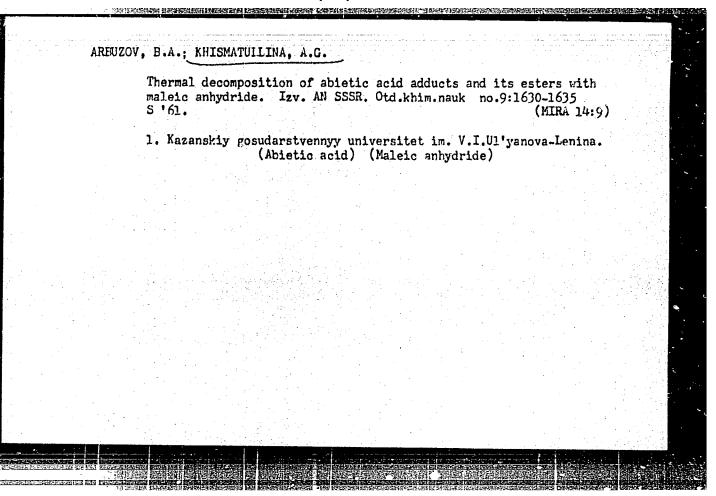
It was not determined whether the products had structure (II) or (III). The acrolein adduct, remarked from the amine salt with boric acid, had mp $50-62^{\circ}$, $[\alpha]_{D} = +37.5^{\circ}$ (all rotation measurements were made in ethanol); it formed a semicarbazone, mp $216-218^{\circ}$, $[\alpha]_{D} = -8.7^{\circ}$. The acrylonitrile adduct, similarly obtained, had mp $80-90^{\circ}$, $[\alpha]_{D} = -12.5^{\circ}$. The vinyl acetate adduct, after regeneration, had mp $67-83^{\circ}$, $[\alpha]_{D} = -26^{\circ}$, neutralization equivalent, 103 (calculated, 103). The methyl acrylate adduct, after repeated recrystallization from aqueous ethanol, had mp $134-138^{\circ}$. The results of elemental analysis, in percentages. There are 2 figures; and 7 references, erence is: G. C. Harris, J. Am. Chem. Soc., 11, 3671 (1948).

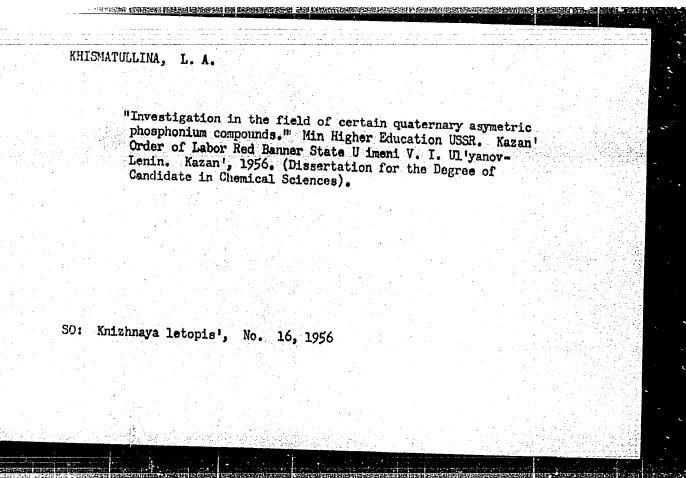
Card 2/3

KHISMATULLINA, A. G., Cand Chem Sci -- "Certain studies in the reside of resin acids of conifers." Kazan', 1961, (Min of Higher and Sec Spec Ed RSFSR. Kazan' Chem-Technological Inst im S. M. Kirov) (KL, 8-61, 232)

- 88 -



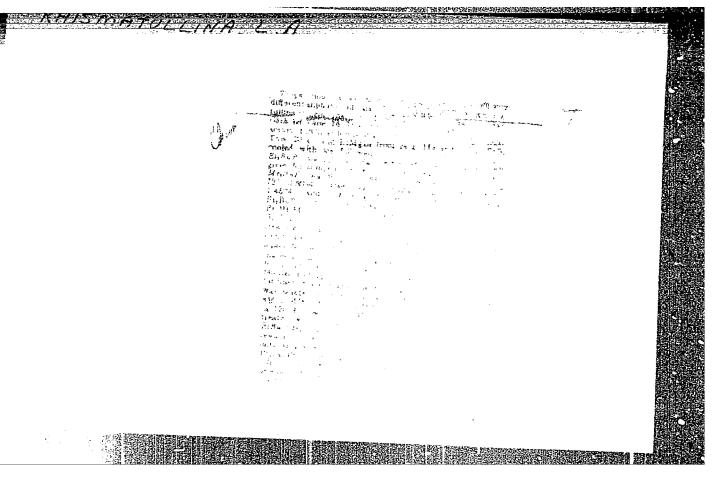


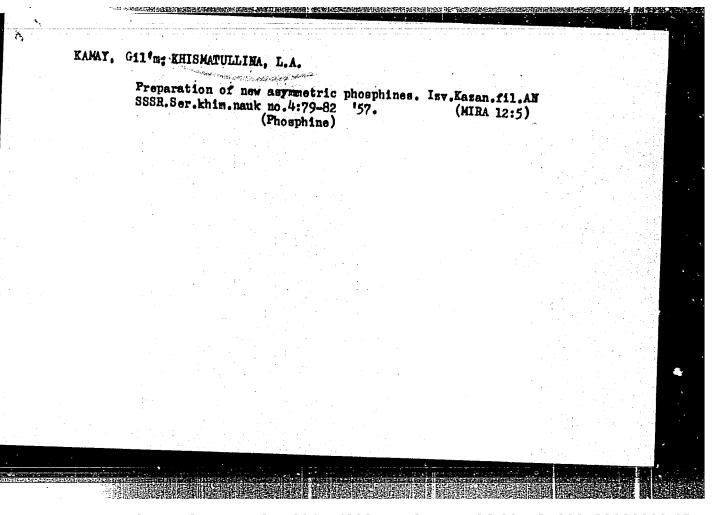


KAMAY, Gil'm; KHISMATULLIHA, L.; ARBUZOV, A.Ye., akademik.

Separation of asymmetric tetracovalent phosphonium compounds into optically active components. Dokl.AM SSSR 92 no.1:69-71 S '53. (MIRA 6:8)

1. Akademiya namk SSSR (for Arbuzov). 2. Khimicheskiy institut im. A.Ye. Arbuzova Kazanskogo filiala Akademii nauk SSSR (for Emmay and Khimatullina). (Phosphonium compounds)





APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722020009-9"

ACCESSION NR: AP4030364

5/0190/64/006/003/0473/0479

AUTHORS: Khismatullina, L. A.; Levi, S. M.; Kukhtin, V. A.

TITLE: Synthesis and investigation of graft copolymers of gelatin

SOURCE: Vywsokomolekulyarnywye soyedineniya, v. 6, no. 3, 1964, 473-479

TOPIC TAGS: protein, gelatin, acryl monomer, polymer, copolymer, graft copolymer, mothylmethacrylate, polymethylmethacrylate, initiator of copolymerization,

ABSTRACT: After reviewing the synthesis of graft copolymers of gelatin with various acrylic acid derivatives, the authors centered their attention on the copolymerization of gelatin with methylmethacrylate (MMA). To a flask, containing water kept at 86C, they added a 10% solution of gelatin and various amounts of potassium persulfate. To this they added various doses of monomers, and heated the was extracted with dichloroethane to obtain the homopolymethylmethacrylate. The methacrylate fraction was separated out. While experimenting with ratics of gelatin to MMA of 2:1, 1:1, 1:3, and 1:4, it was found that the amount of homopolymer

ACCESSION NR: AP4030364

and of the grafted branch polymer fraction increased with higher MMA content in the original mixture. It was calculated that for each molecule of gelatin of a molecular weight of 60 000 there were 13-17 graft polymer branches of a molecular weight of 2700-2000. Experiments with concentrations of the initiator within the 0.75-9% range revealed that the firmness of the gel and the viscosity of the solution decreased with higher concentrations of potassium persulfate, while the quantitity of homopolymeric MMA increased, and the molecular weight of the graft polymers diminished. A study of the physico-chemical and physico-mechanical properties of various graft copolymers of gelatin with monomers of the acryl series showed their superior mechanical strength, elasticity, and thermal stability, while within a pH range of 2.5-10. Orig. art. has: 5 tables and 3 charts.

ASSOCIATION: Nauchno-issledovatel skiy kinofotoinstitut (Scientific Research

SUBMITTED: 11Mar63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: OC

NO REF SOV: 002

OTHER: 002

Card 2/2

L 33056-66 EWT (1)/T ACC NRI TAP6024071 SOURCE CODE: UR/0077/66/011/002/0081/0087 AUTHOR: Khismatullina, L. A.; Levi, S. M.; Bogdanov, L. H.; Kukhtin, V. A. ORG: All-Union Scientific Research Motion Picture Institute (Vsesoyuznyy nauchnoissledovatel'skiy kinofotoinstitut) TITLE: Investigation of the application of grafted gelatin copolymers for photographic emilsions go SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 11, no. 2, TOPIC TAGS: photographic emulsion, graft copolymer, photographic processing. photographic property ABSTRACT: Conditions are worked out for synthesis of grafted gelatin copolymers. As a result of physico-mechanical and photographic investigations of the grafted gelating copolymers, introduced to the emulsion in quantities of 25-50%, it has been established that these materials have no negative effect on the photographic properties, but increase the elasticity, strength and heat stability of the emulsion layer, which makes the layer immune to separation during high-temperature photographic processing. Orig. art. has: 9 tables. [JPRS] 14, 07 / SUBM DATE: 15Sep64 / ORIG REF: 002 / OTH REF: 001 771.513

KHISNYY, G.I.

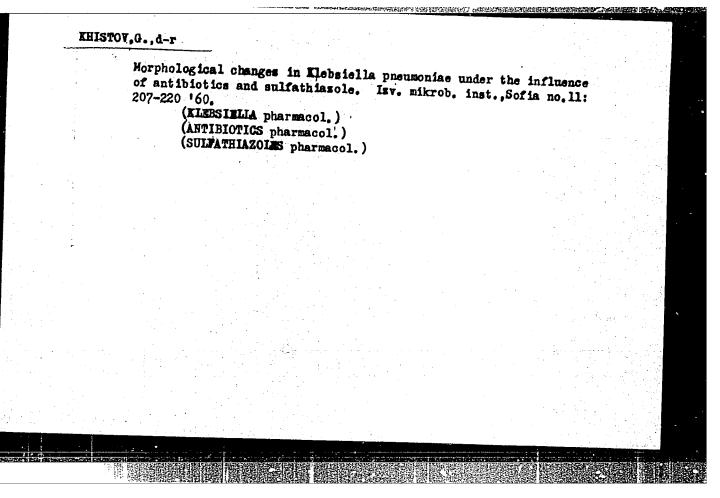
Perforating ulcer of Mackel's diverticulum with the presence of pancreatic tissue in the latter. Vest.khir. 75 no.4:132-133 ky 155. 1. Iz otdeleniya neotlozhnoy khirurgii i travmatologii 1-y gorod-skoy bol'nitsy Dneprodsershinska (glavn. vrach-zasl. vrach USSR P.K. Koleshik) Dnaprodsershinsk, ul. Novo-Zaporozhskava, d. 1/2, kv.58.

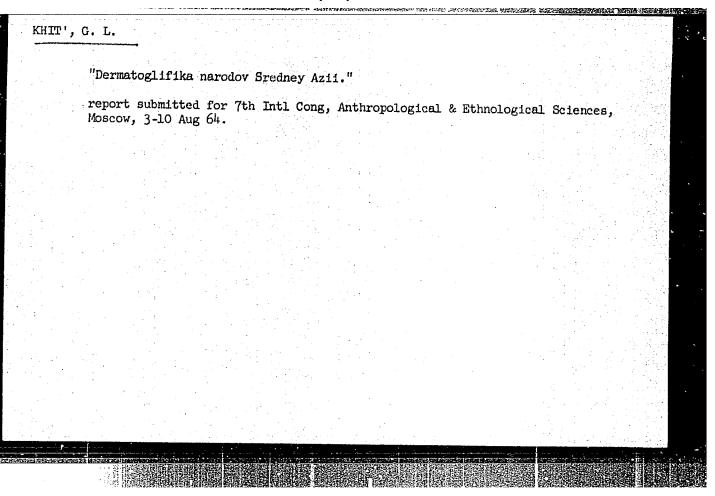
(MECKEL'S DIVERTICULUM, complications, ulcer perf., with presence of pancreas tissue, surg.)

BUBLIK, P.K.; ZOLOTAREVSKAYA, Ye.M.; KHISTNAYA, Z.G.

Problem of sterilization chamber. Aptech. delo, Moskva 2 no.2:61-63 Mar-Apr 1953. (CIML 24:3)

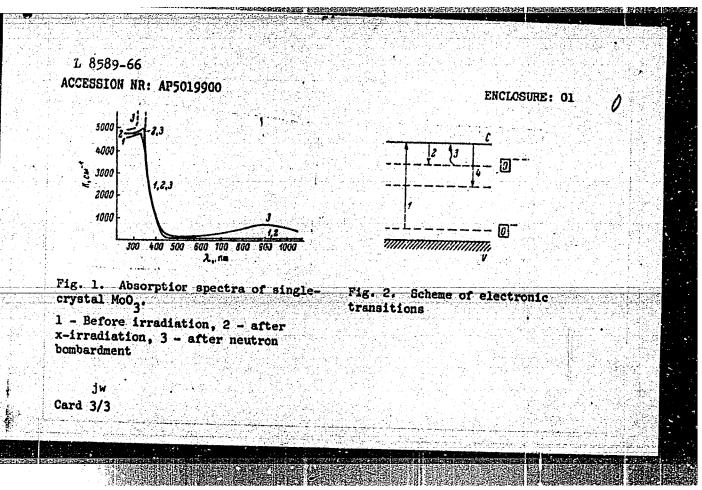
1. Of Dneproductahinsk Branch of Dnepropetrovsk Division of the All-Union Scientific Pharmaceutic Society.





L 8589-66 EWT(m)/EWG(m)/T/EWP(b)/EWA(m)-ACCESSION NR: AP5019900	-2/EWP(t)/EWT(1) IJF(c, AT/WW/JD/GG/RDW/ UR/0181/65/007/008/2573/2575
AUTHOR: Dzhanelidze, R. B.; Purtseladze R. I.; Shkol'nik, A. L. 44,5	, I. M.; Knitarishvili, L. S.; Chikovani,
TITIE: Certain optical and photoelectric	
SOURCE: Fizika tverdogo tela, v. 7, no.	8, 1965, 2573-2575 V
ture, crystal lattice vacancy, photoelec	absorption, absorption edge, electron cap-
for reflection. The crystals exhibited a lengths). The absorption edge shifted so the long-wave region. The results are sterpreted from the point of view of the shown in Fig. 2 of the Enclosure. In particular, the shown in Fig. 2 of the Enclosure.	ntaining sufficiently large samples, the50) x (16) x (0.050.5) mm) of MoO ₃ in spectra were investigated with allowance strong absorption (350 nm and shorter wave-omewhat with increasing temperature toward hown in Fig. 1 of the Enclosure and are inlevel scheme of the electronic transitions rticular, the peaks near 350 and 900 nm, reduced by different treatments, are at-
Card 1/3	

4 4 Y	L 8589-66 ACCESSION NR	. AP5019900)						6	Ē
	electrons. 'art. has: 2	The authors figures.	thank I. A	. Mirte	ikhylava f 44.55		in the		Orig.	
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S/058/62/000/006/093/136 A057/A101

AUTHORS:

Chikovani, R. I., Shkol'nik, A. L., Purtseladze, I. M.,

Khitarishvili, L. S.

TITLE:

On the photoconductivity of single crystals of molybdenum

trioxide MoO3

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 6, 1962, 38, abstract 6E306

("Tr. Tbilissk. un-ta", 1960, 86, 449 - 458; English summary)

TEXT: The photoconductivity of MoO_z single crystals, obtained by a single, or multiple distillation of MoO_z powder, and also of films of this compound, obtained by evaporation in vacuum on a quartz backing, was investigated. The experiments were carried out with non-irradiated crystals, and also with crystals irradiated by X-rays, gamma-rays, and neutrons. The region of photosensitivity of the crystals lies below 360 m/a and coincides with the region of strong absorption. The photosensitivity has a maximum at room temperature and is at the maximum in the average 20 - 30%. At temperatures above 70°C the photosensitivity disappears

Card 1/2

On the photosensitivity of ...

S/058/62/000/006/093/136 A057/A101

irreversibly. With time, a recovery of the photosensitivity takes place, which can be accelerated by annealing. Irradiation of the crystals with X-rays does not change their photosensitivity. Irradiation with gamma-rays effects a small increase of photosensitivity, and irradiation by neutrons - a loss. The photosensitivity is absent in thin films. The obtained results are explained by the presence of oxygen vacancies in the crystals, which are able to capture one or two electrons.

P. Konorov

[Abstracter's note: Complete translation]

Card 2/2

\$/058/62/000/006/032/136 A061/A101

AUTHORS:

Purtseladze, I. M., Khitarishvili, L. S., Chikovani, R. I.,

Shkol'nik, A. L.

TITLE:

A study of the optical properties of molybdenum trioxide MoO3

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 6, 1962, 32, abstract 6V214 ("Tr. Tbilissk. un-ta", 1960, v. 86, 439 - 448, English summary)

TEXT: A quantitative investigation has been conducted on absorption and reflection spectra of single crystals and polycrystalline MoO3 films at temperatures between 90 and 465°K. The spectral coefficient of MoO3 self-absorption displays a steep rise at ~ 350 m μ This absorption edge is displaced, in films, toward the longwave side as compared with single crystals, and shifts toward the side of long waves during heating. In crystals subjected to X- and y-irradiation and neutron bombardment in the reactor, the spectrum displays an additional absorption band at 350 m/m, which is unstable and decays under the action of light, and also a stable band at ~ 900 mm (with neutron bombardment). The 350-mm band refers to a center consisting of an oxygen vacancy by which an electron has been

Card 1/2

A study of the...

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A061/A101

trapped, while the 900-mµ band is due to large aggregates of lattice imperfections.

[Abstracter's note: Complete translation]

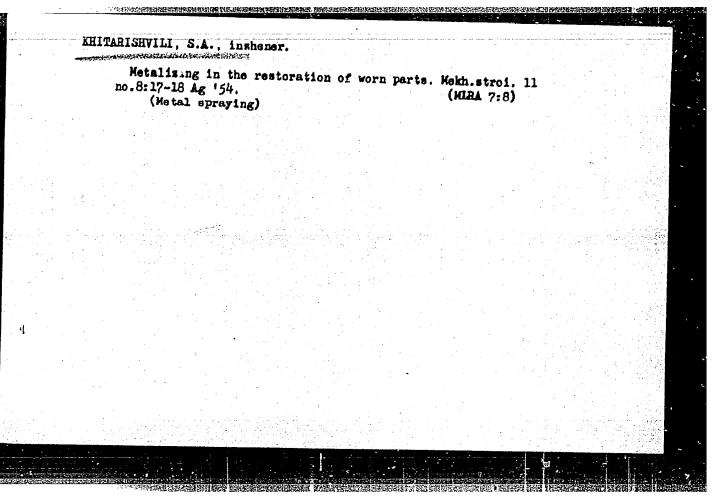
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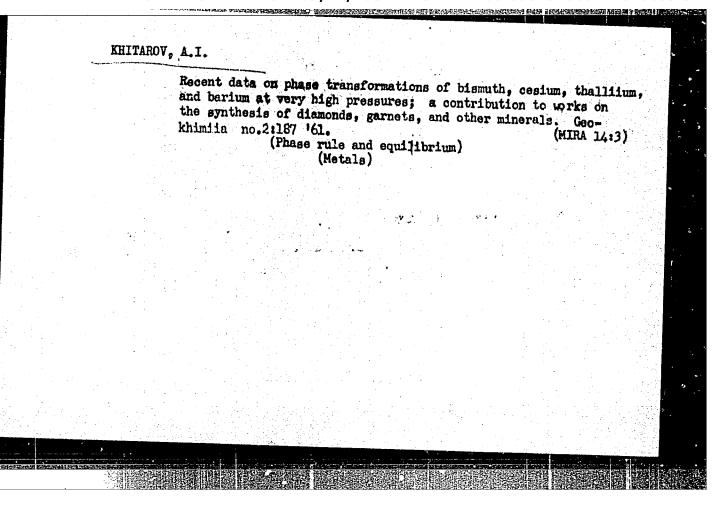
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722020009-9"

DZHANELIDZE, R.B.; PURTSELADZE, I.M.; KHITARISHVILI, L.S.; CHIKOVANI, R.I.;

Some optical and photoelectric properties of MoO₂. Fiz. tver.
tela 7 no.8:2573-2575 Ag '65. (MIRA 18:9)

1. Tbilinskiy gosudarstvennyy universitet.





3(5) AUTHORS: Demin, A. M., Khitarov, D. N. SOV/7-58-6-7/16

TITLE: Geochemistry of Potassium, Rubidium and Thallium Applied to Problems of Petrology (Geokhimiya kaliya, rubidiya i

talliya v prilozhenii k voprosam petrologii)

PERTODICAL: Geokhimiya, 1958, Nr 6, pp 570 - 581 (USSR)

ABSTRACT:

Rocks of the Malo-Labinskiy muscif in the Glavnyy Kavkazskiy khrebet zone were investigated. K and Rb were flame photometrically determined according to Ye. A. Fabrikova (Ref 7). The accuracy was 7%. Tl was determined according to a method by N. T. Voskresenskaya (Ref 4), accuracy 15 - 17%. Tables 1, 2 and 3 show the distribution of the three elements in the main intrusion phases. Table 4 presents a summary and the Rb/Tl, K/Rb and K/Tl ratio. The mineral fractions of quartz, feldspar and biotite (Tablez 5 - 7) were also investigated. On tables 8 and 9 a survey is given as well as the ratio. The results of geochemical investigation agree with petrographical observations: The granitoids of

the massif originate from a common magnatic focus. The content increases from older to younger rocks, the K/Rb and K/Tl ratio (tonalite - coarse-grained microcline mica

Geochemistry of Potassium, Rubidium and Thallium Applied to Problems of Petrology

SOV/7-58-6-7/16

biotite granite - leucocratic granite - alaskite) decreases in the same direction. The results of analyses are in favor of a metasomatic formation of the porphyritic granodiorites. Biotite contains comparatively more Rb and Tl. In feldspars containing a higher percentage of acid, Rb and Tl are more intensively concentrated than potassium. The authors thank A. A. Saukov, N. T. Voskresenskaya and Ye. A. Fabrikova for advice in their work. There are 9 tables and 12 references, 6 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

June 18, 1958

Card 2/2

"APPROVED FOR RELEASE: 09/17/2001 CIA

CIA-RDP86-00513R000722020009-9

S/026/62/000/003/004/006 D055/D113

AUTHOR:

Khitarov, D.N. (Moscow)

TITLE:

Coesite in nature

PERIODICAL: Priroda, no. 3, 1962, 79-80

TEXT: The author gives an account of the artificial synthesis of coesite in the USSR and theories on its distribution, reference being made to American research in this field. In 1957, N.I. Khitarov and co-workers of the Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy, AS USSR) synthesized coesite from amorphous silica at 26,000 - 38,000 atm and at 450-600°C. It took the form of colorless, transparent crystals with idiomorphic shapes scattered in quartz. Separate crystals have the form of flattened prisms with well-formed end faces, which in many cases were rounded, thus resembling apatite. Khitarov pointed out that coesite could probably be found under natural conditions particularly in regions with sharply defined, large tectonic faults and block displacement, as considerable pres-

Card 1/2

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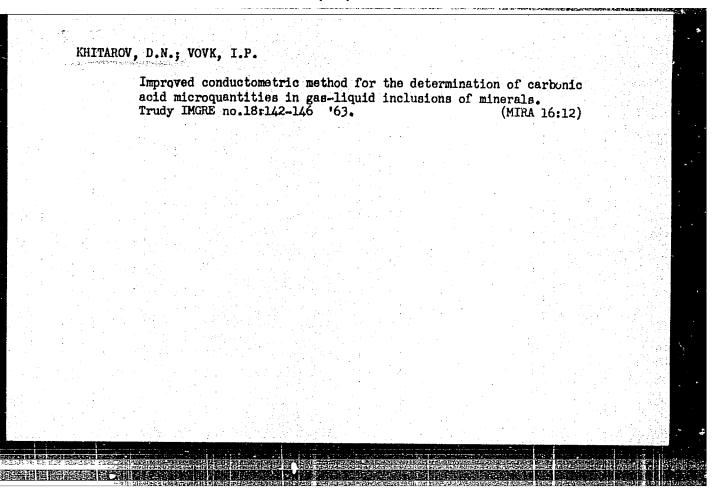
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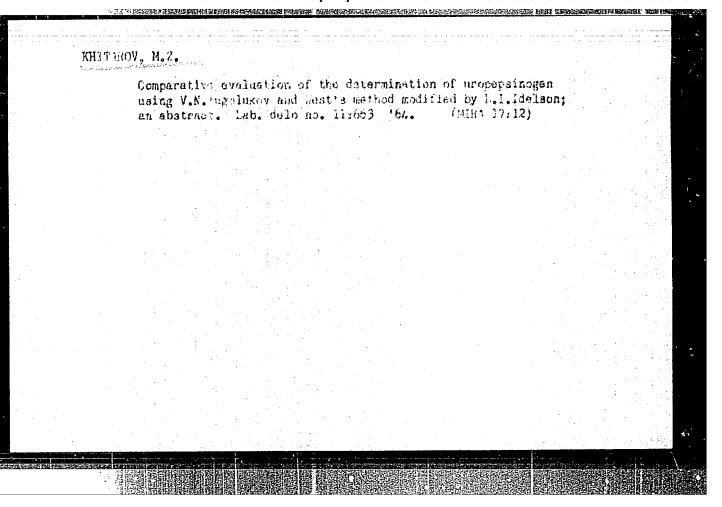
Coesite in nature

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sures and temperatures would have coincided here with the rapid displacement of a block of strata into a region with different physical and chemical characteristics. There are 2 figures.

Card 2/2



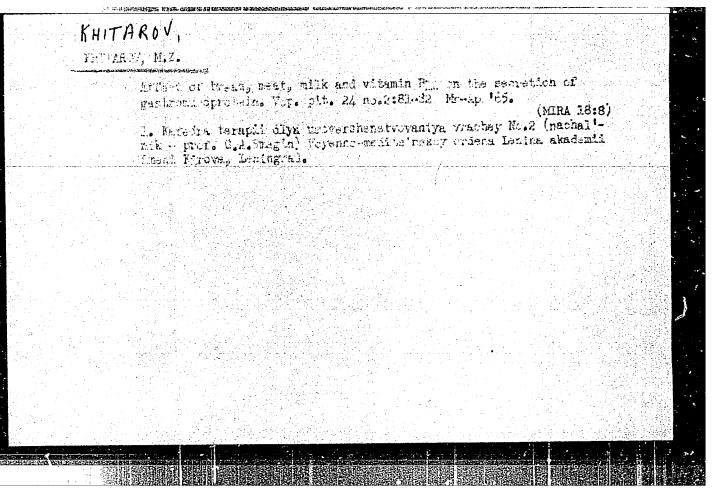


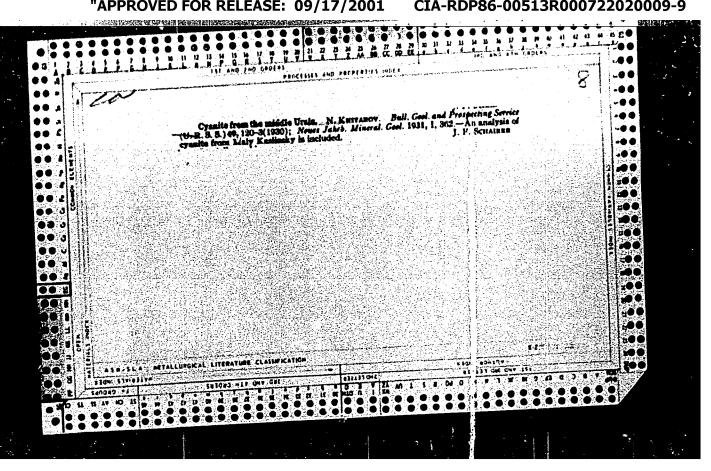
ANDHEYEV, L.V.; KHITAROV, M.Z.

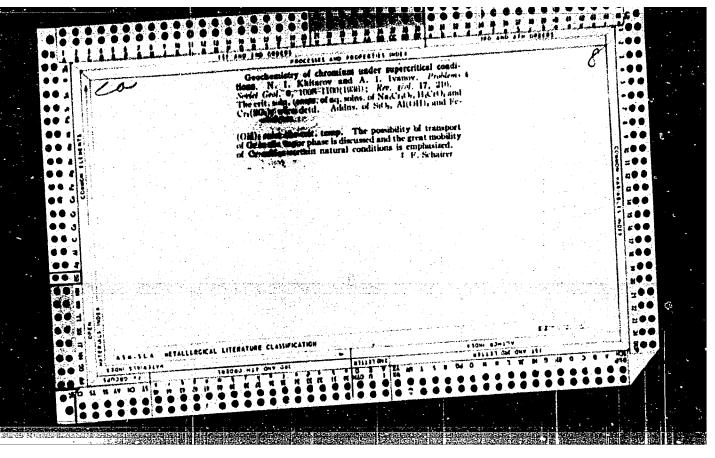
Comparative evaluation of the determination of popsin by Mett and Tugolukov's method; an abstract. !.ab. delo no. 11: 664, '64. (Mika 17:12)

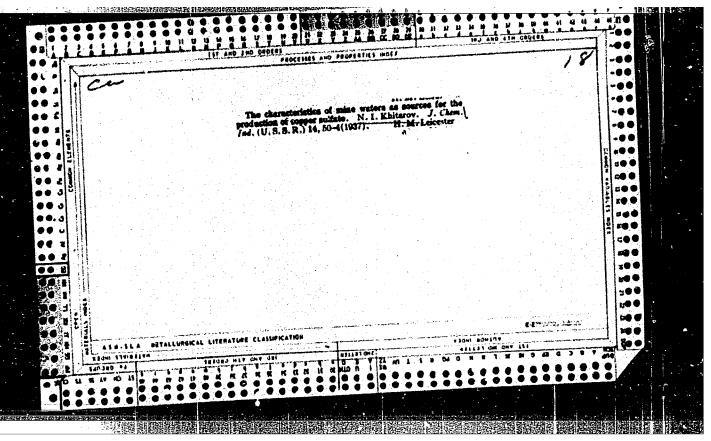
1. Kafedra terapii dlya usovershenstvovaniya vrachey No.2 (nachal'nik - prof. V.A.Smagln) Voyenno-meditsinskoy ordena Lenina akademii im. S.N.Kirova.

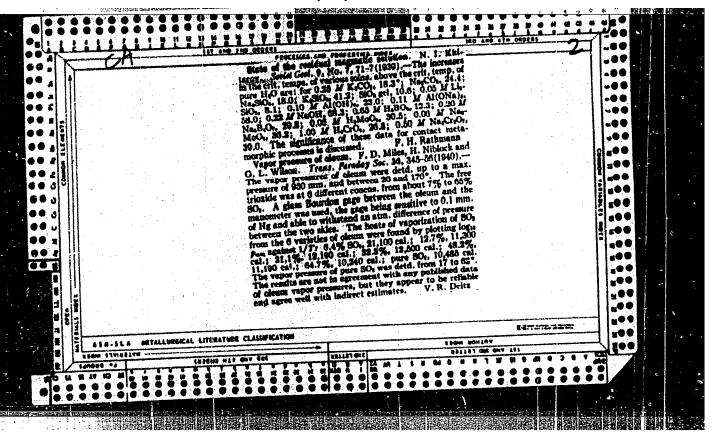
Role of a test breakfast in the study of the interrelation of the internal Castle's factor and other secretory indications; an abstract. Lab. delo no. 12:719 '64. (MIRA 18:1)

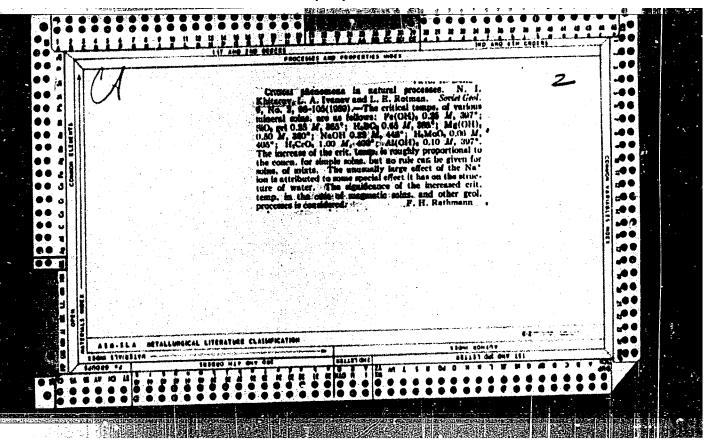


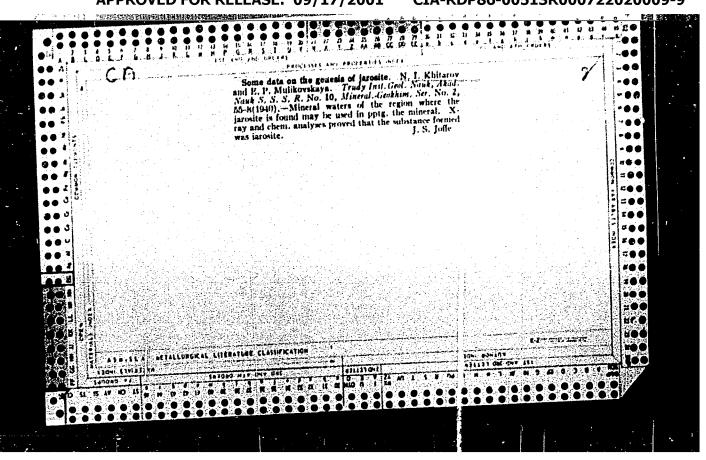


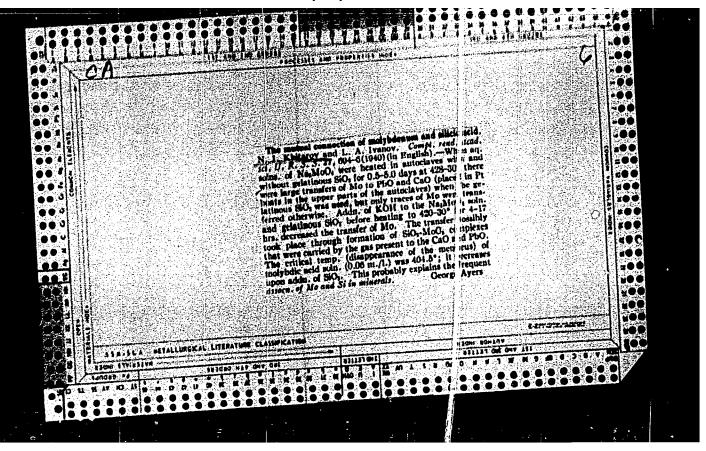




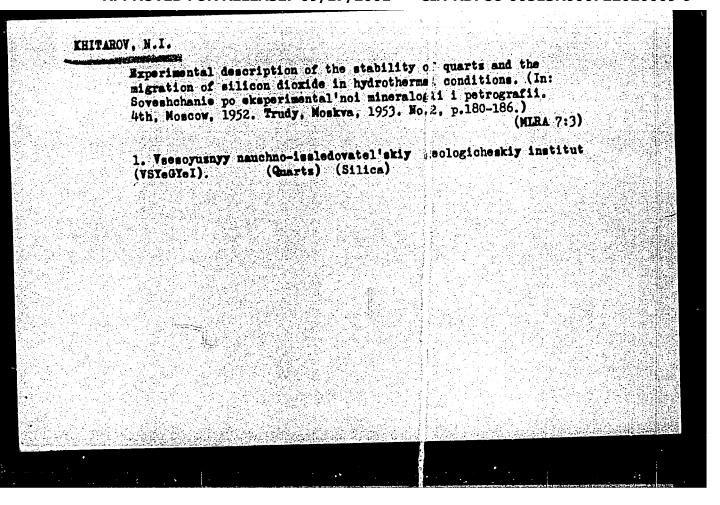


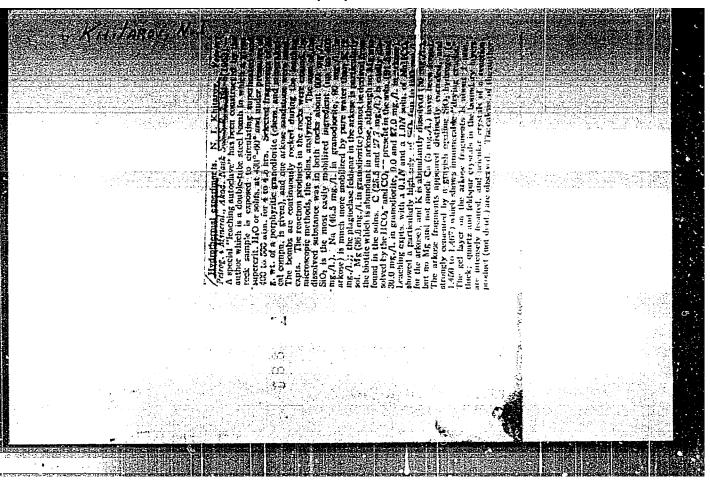


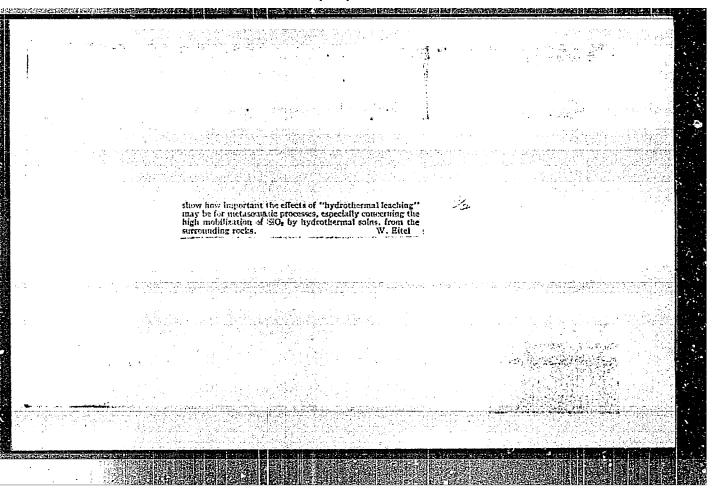




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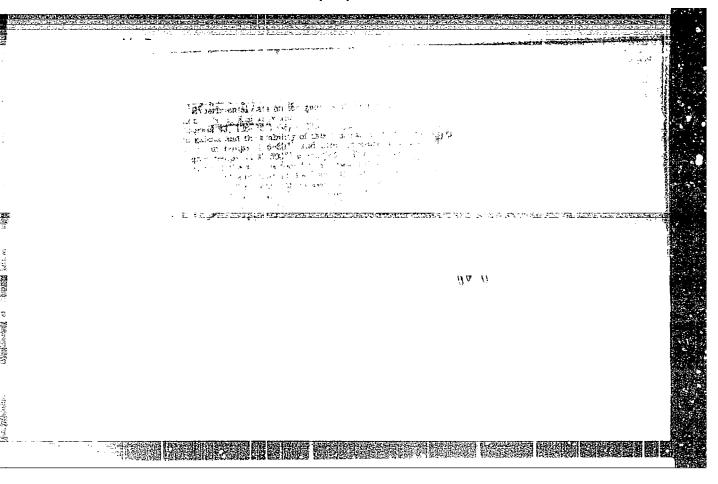


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MAKARRNKO,F.A., doktor geologo-mineralogioheskikh nauk; KHITAROW,N.I., kandidat geologo-mineralogioheskikh nauk

Geothermy of the Greater and Lesser Caucasus; conference in Tiflis. Vest.AN SSSR 25 no.9:102-103 S¹55. (MIRA 8:12)

(Caucasus-Geology)



KHITAROV, N.I

USSR/Physical Chemistry. Thermodynamics, Thermochemistry, B-8 Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14700

Author : N. I. Khitarov

Pressure Range up to 4,000 kg per sq.cm.

Orig Pub: Geokhimiya, 1956, No 1, 62-66

Abstract: The 4000 isotherm of the system H₂O-SiO₂ in the pressure range from 600 to 4,000 kg per sq.cm. was plotted basing on experimental data and taking into consideration the

results obtained by the author earlier (Tr. IV konf. poeksperim. miner. 1 petrografii, 1952, vyp. 2). The experimental data are brought together in a table. It is shown that the stability of quartz decreases with the pressure increase and that at 4,000 kg per sq.cm. the content of SiO₂ in the solution rises to 3,000 mg per

lit. The comparison of the author's results with

Card 1/2

USSR/PhysPPROVED FOR RELEASE in 09/11/12991 The raid RDP86-90513R900722020009-Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14700

Abstract: available bibliographical data referring to the adjoining region of lower pressures showed a good agreement, especially in case of pressures above 1,000 kg per sq.cm. Isotherms of 350, 450, 500 and 6000 of the system H₂O-SiO₂ were plotted in addition. The greatest drop of the stability of quartz is observed in NaOH solutions.

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	KHITAROV, N.I.		
	International geological congress. Geokhimiia no.1:118	(MLRA 9:9)	
	(MexicoGeologyCongresses)		
-			

KHITAROV, N.I.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30372

Author

: Khitarov, N.I., Rengarten, Ye.V.

Inst Title

: Contribution to the Geochemistry of Carbon Dioxide in

Granite Intrusions.

Orig Pub

: Geokhimiya, 1956, No 2, 74-77

Abst

Determinations were made of the carbon dioxide content in granite from the areas of the Maritime Province, Caucasus and Kazakhstan. Prior to determination the specimen was comminuted to 1 mm, washed with water, dried, ground again in an agate mortar, screened, and small samples of the 0.25-0.1 mm fraction were used for analysis. The sample was placed into a quartz test tube which was connected to a special assembly with Ba(OH)₂ absorber. The CO₂ was displaced with a current of nitrogen. For determination of CO₂ a

Card 1/2

Card 2/2

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KHITAROV, N.J.

Category: USSR

Abs Jour: RZh--Kh, No 3, 1957, 7864

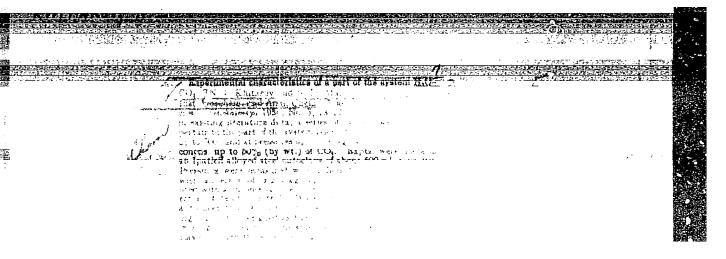
Author : Khitarov, N. I.
Inst : Not given

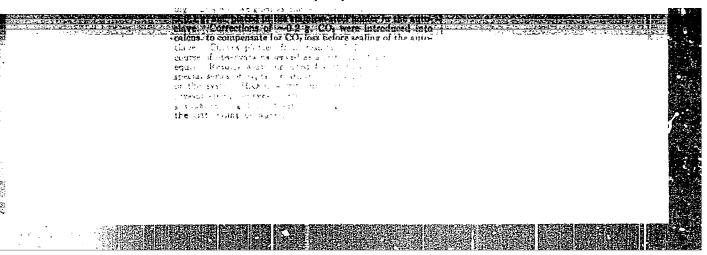
Title : The First All-Union Conference on Geothermal Research

Orig Pub: Geokhimiya, 1956, No 2, 94-96

Abstract: No abstract.

Card : 1/1





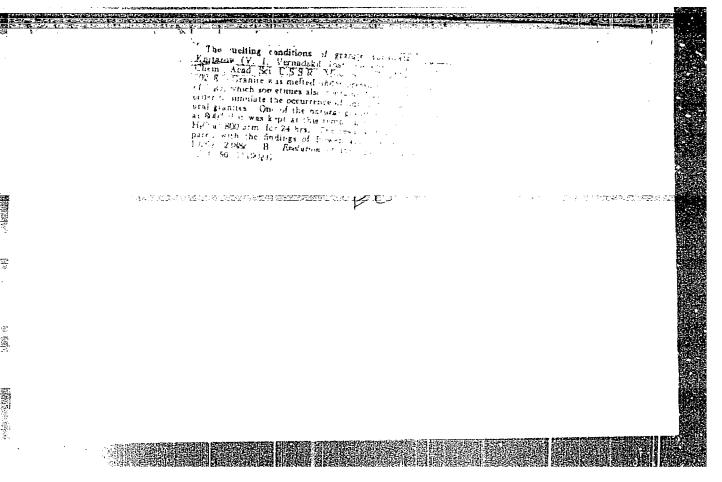
KRASNIKOV, V.I., glavnyy red.; BRODSKIY, A.A., red.; PEREL'MAN, A.I., red.; SAUKOV, A.A., red.; SAVROHOV, N.I., red.; SKROEYEV, Ye.A., red.; KHIMAROV, H.I., red.; SHARKOV, Yu.V., red. SHCHERBINA, V.V., red.; GUROVA, O.A., tekhn.red.

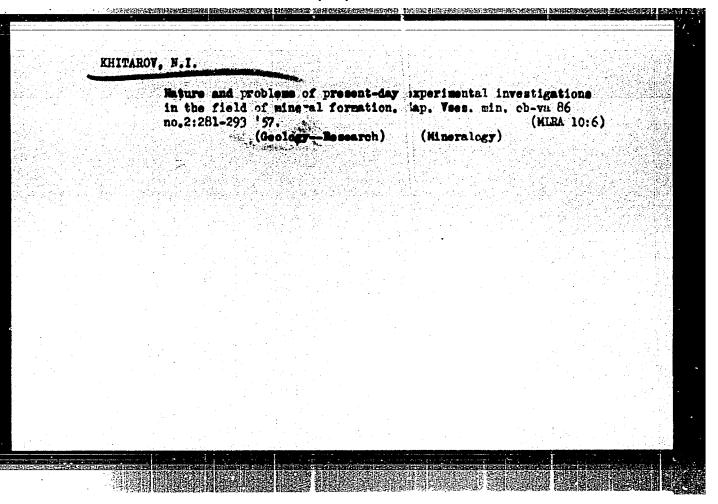
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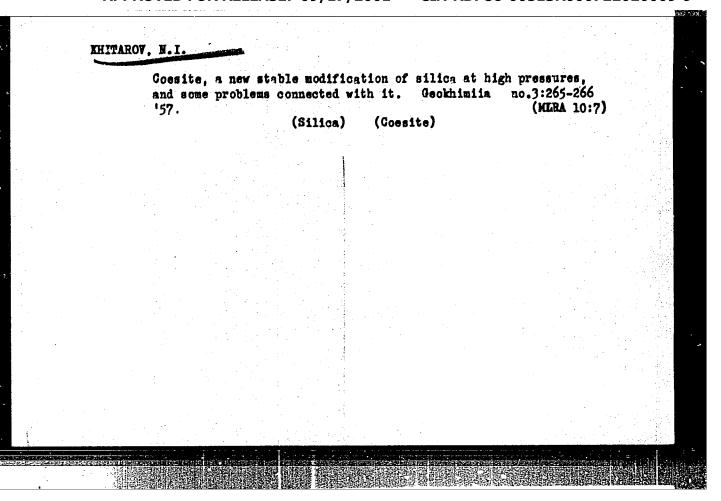
[Geokhimicheskie poiski rudnykh mestorozhdenii v SSSR; trudy soveshchaniia. Pod red. V.I. Krasnkova. Moskva, Gos.nauchno-tekhn.izdvo lit-ry po geol. i okhrane nedr. 1957. 466 p. (MIRA 11:3)

1. Vsesoyuznoye soveshchaniye po geokhimicheskim metodam poiskov rudnykh mestorozhdeniy. 1st, Moscow, 1956.

(Geochemical prospecting)





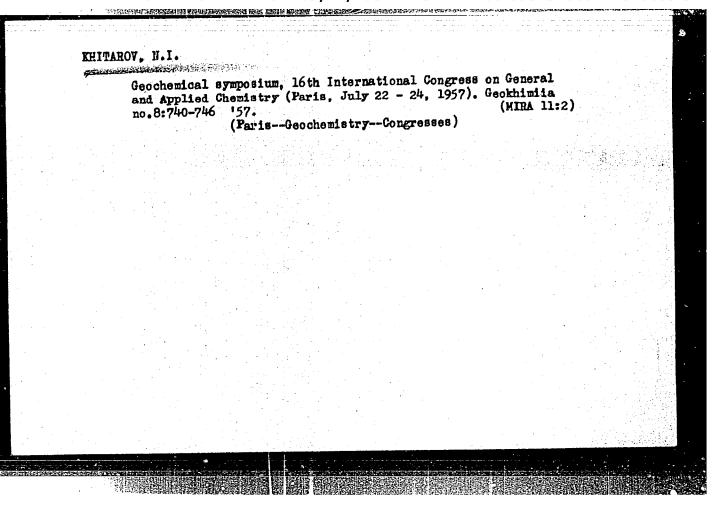


Experiments on the fusion of granite in the presence of water. Geokhimiia no.5:380-384 '57. (MIRA 12:3)

1. V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, USSR, Moscow. (Granite) (Fusion)

The chemical properties of solutions arising as a result of the interaction of water with rocks at elevated temperatures and pressures [with summary in English]. Geokhimia AN SSSR no.6: 481-492 '57. (MIRA 11:2)

1. Institut geokhimii i analitichskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva. (Solution (Ghemistry)) (Thermodynamics)



KHITAROV, N. I.

 $_r^{\prime\prime}\text{Reaction}$ Between Oligoclase and Water in Conditions of High Tempeatures and Pressures' p. 208

"Synthesis and Structure of Hydrosilicates containing Simple and Complex Heavy Metal Cations." p. 38

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSER, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

7-58-3-5/15

AUTHORS:

Khitarov, N. I., Rengarten, Ye. V., Lebedeva, N. Ye.

TITLE:

The Chemical Composition of Liquid Inclusions in Iceland Crystal and the Problems of Its Genesis (Khimicheskiy sostav zhidkikh vklyucheniy islandskogo shpata i voprosy genezisa)

PERIODICAL:

Geokhiniya, 1958, Nr 3, pp. 214 - 221 (USSR)

ABSTRACT:

8 crystals from the Thogashiy crapts where supplied by Ye.Ya. Kiyevlenko and N.N. Andrusenko. They are from four different

types of deposits:

1)Gonchak and Nidym deposits, 2)Shpat deposit, 3)Yangurakta and Kuktule deposits, 4)Dzhekinde and Markhaya deposits. The content of CO₂ and water of the vacuoles was determined

in a special apparatus which is given and described in a schenatic diagram; the device for opening the vacuoles is shown in a figure. The salt contents were determined by means of microanalysis. All results are compiled in a table. The second part treats the particularities of the composition of inclusions and the conceptions concerning the genesis. The inclusions con-

Card 1/2

The Chemical Composition of Liquid Inclusions in Iceland Crystal and the Problemsof Its Genesis

7-58-3-5/15

sist of rather concentrated solutions of chloride, calcium, and sodium. In order to be able to fix the hydrothernal formation conditions, it was tried to wash out gabbro-dolerite (Dzhekindin deposit) by means of water, NaCl- and CaCl- solutions under various conditions. The results are shown in two tables and one diagram. Hence results a formation temperature of the crystals of below 2000 at a pressure below 15-16 atmospheres; the low CO2-content as well as the complete development

of the crystals speak in favor of this lowtemperature. There are 5 figures; 3 tables, and 2 references, 2 of which are Soviet. Institut geokhimii i analiticheskoy khimii in. V.I. Vernadskogo,

AN SSSR, Moskva (Moscow Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AS USSR)

SUBMITTED: March 5, 1958

> 1. Calcite crystals -- Impurities C. Calcite crystals ---Temperature factors 3. Chemical impurities Analysis

4. Salts Determination

Card 2/2

ASSOCIATION:

AUTHOR:

Khitarov, N. I.

SOV/7-58-5-14/15

TITLE:

Transactions of the Second All-Union Conference on Petrography

(Vtoroye Vsesoyuznoye petrograficheskoye soveshchaniye)

PERIODICAL:

Geokhimiya, 1958, Nr 5, pr. 507 - 508 (USSR)

ABSTRACT:

The second All-Union Conference on Petrography took place at Tashkent from May 19 to 23, 1958. It was attended by about 600 scientists from home and abroad. About 20 scientific lectures were held at the plenary meetings. The Minister of Geology and the Protection of Mineral Deposits of the USSR P.Ya.Antropov spoke twice. He dealt with the state of geology in the Soviet Union and with the tasks of the geologists in science and practical work. The lecture delivered by V.A.Nikolayev dealt with the investigation of a system with unequal pressure exerted on the phases, and the application of the processes of endogenic mineral formation. D.S.Korzhinskiy spoke about "Acidity - Basicity, the Most Important Factor of Magmatic and Post-Magmatic Processes". Yu.A.Kuznetsov suggested a classification of the magmatic formations which is based on the most important tectonic structural types and the

Card 1/4

Transactions of the Second All-Union Conference on Petro-SOV/7-58-5-14/15 graphy

magmatism connected with them. N.P. Semenerico lectured on the genetic classification of metamorphous rocks and processes. V.P.Petrov pointed to the necessity of introducing new research methods into practical petrographic work. N.I. Khitarov spoke about the water content of basalt magma. Y.S.Koptev -Dvornikov et al., in their lecture presented the results obtained by the collaborators of the IGEM, GEOKHI, AS USSR, and MGU in the investigation of the granitoids from various areas of the Union. The lecture delivered by Yu.I.Polovinkina dealt with geological rules governing the development of the magmatism in the area of the USSR. G.S.Dzotsenidze reported on the role played by the effusive volcanism in the formation of useful deposits. Sh.A.Azizbekov and collaborators dealt with the magmatism and the metallogenesis in Azerbaydzhan. I.G. Magak'yar and S.S.Mkrtchyan reported on the genetic relation between mineralization and magmatism as shown by the example of the Malyy Kavkaz. Kh.M. Abdullayev spoke about the magmatism and the metallogenetic processes in Central Asia connected with it (Srednyaya Aziya). Ye.D.Karpova delivered a lecture on the "Intrusive and Ore Complexes in the Tectonic Zones of the

Card 2/4

Transactions of the Second All Union Conference on Petrography

SOV/7-58-5-14/15

Southern Tien Shan". . Then D.N. Yelyutin and collaborators spoke about the formation of the intrusive complexes in the Northern zone of the Tien Shan . R.B. Baratov reported on peculiarities of the magmatism and the metallogenesis in Tadzhikistan. At the final session A.A.Polkanov and E.K. Gerling spoke about the potassium-argon method for the determination of the absolute age of rocks, and G.D. Afanas yev on the determination of the absolute age of rocks and their geological importance. Furthermore the following lectures were held: S.Dimitrov (Bulgaria) "On the Magmatism and the Ore Deposits in Bulgaria". Koutch (German Democratic Republic) "On the Genetic Peculiarities of the Mansfeld Slates". M. Savula (Roumania) "On the Application of the Method of Investigating Liquid Inclusions to Petrographic Problems". K.Smulikovskiy (Poland) "On the Genetic Classification of Granitoids". More than 70 lectures were held in 4 departments. Details of the transactions are to be presented in a special publication: Transactions of the Second All-Union Conference on Petrography (Materialy ko vtoromu Vsesoyuznomu petrograficheskomu soveshcha-

Card 3/4

Transactions of the Second All Union Conference on SOV/7-58-5-14/15

niyu). After the Conference two excursions were organized.
The Third Petrographic Conference is to take place at Novosibirsk.

Card 4/4

3(8) AUTHOR:

Khitarov, N. I.

507/7-58-6-2/16

TITLE:

Problems of Petrogenesis in the Light of Experimental Results. (Voprosy petrogeneza v svete eksperimental nykh dannykh)

PERIODICAL:

Geokhimiya, 1958, Nr 6, pp 524 - 534 (USSR)

ABSTRACT:

The author observed the activity of the volcano Bezymyannyy (Klyuchevskaya gruppa, Kamchatka). Investigations of pressure and heat supply and experiments at high pressure led to the conclusions that basaltic magma is to be regarded as the least altered primary substratum. For the mentioned magma two extreme cases are valid: 1. Immediate eruption to the surface, limited reaction with the surrounding recks, the partial pressure of H₂ is comparatively high, or 2. Magma is prevented from exuding to the surface, assimilation is possible and the partial pressure of H₂ drops, at the same time the effect of water increases. It may be measured by $\Delta = \frac{F_{2}}{F_{2}} = \frac{1}{1}$. Test series at high temperatures (450°, 600°) and pressure (600 atmospheres, 3000 atmospheres) showed that most of the water originates from the basaltic magma, and is therefore juvenile. The further formation of

Card 1/2

Problems of Petrogenesis in the Light of Experimental Results

SOV/7-58-6-2/16

rock is due to transformation of basic eruption magma, particularly by the effect of variations in the system H₂ - Fe - H₂O during crystallization. Investigations carried out by other authors (Refs 6 and 7) on the 0 6/0 ratio in igneous rocks prove the importance of water in the formation of igneous rock.

Analyses were made by: T. N. Kozintseva, E. Ye. Filippova and Ye. V. Rengarten. S. I. Naboko put a sample at the author's disposal. There are 3 figures, 8 tables, and 7

references, 4 of which are Soviet.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy AS USSR, Moscow)

SUBMITTED:

June 20, 1958

Card 2/2

5(4) AUTHORS:

Khitarov, N. I., Malinin, S. D.

SOV/7-58-7-8/13

TITLE:

News in Brief (Kratkiye soobshcheniya) On the Equilibrium

Phase Relations in the System H20-C02(0 ravnovesnykh

fazovykh otnosheniyakh v sistemé H₂0-CO₂)

PERIODICAL:

Geokhimiya, 1958, Nr 7, pp 678 - 679 (USSR)

ABSTRACT:

The system H20-CO2 was investigated in the range of from 200 to 30000 and under pressures of up to 600 kg/cm2. The result of the investigations, which were carried out in the Laboratoriya magmatogennykh protsessov

(Laboratory for Magmatogeneous Processes), is a pressure-concentration diagram where the equilibrium curves for 50, 200, 250, 300, and 330°C are plotted. The following facts can be learned from the diagram: 1) The solubility of carbon dioxide increases markedly with pressure and temperature. 2) Beginning with a certain temperature, which depends upon pressure, the solubility isobar passes a minimum value. 3)

Card 1/2

Regarding an isotherm the CO2-content passes a maximum. 4) The isothermal lines for 300 and 330°C form a loop,

News in Brief. On the Equilibrium Phase Relations in the SOV/7-58-7-8/13 System H₂O-CO₂

> i.e. beginning with a certain temperature there is only one phase left. Furthermore the authors observed that by dissolving CO₂ in water the critical temperature of the latter is decreased. There are ; figure and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im.V.I.

Vernadskogo AN SSSR, Moskva(Institute of Geochemistry and Analytic Chemistry imeni V.I. Vernadskiy, AS USSR, Moscow)

SUBMITTED: August 3, 1958

Card 2/2

KNITAROV NI

AUTHORS:

Khamrabayev, I.Kh. and Rub, M.G.

507-11-58-10-12/12

TITLE:

The Second All-Union Petrographic Conference (Vtoroye vsesoyuznoye petrograficheskoye soveshchaniye)

PERIODICAL:

Izvestiya Akademii nauk, SSSR, Seriya geologicheskaya,

1958, Nr 10, pp 124 - 128 (USSR)

ABSTRACT:

The above-mentioned conference took place in Tashkent from 19 to 23 May 1958. Over 1,000 representatives of over 100 geological organizations and vuzes took part in the conference. Scientists from China, Poland, East Germany, Rumania and Bulgaria also attended. The conference was opened by the president of the AS of the UzbekSSR Kh.M. Abdullayev. The Minister of Geology and Conservation of Mineral Resources of USSR P.Ya. Antropov reported on the extent of knowledge of the territory of the USSR, and on problems of petrology. Lectures were given at plenary sessions by Academician S.T. Dmitrov (Bulgaria), K. Smulikowski (Poland), Prof. Kautsh (E.Germany), Academician D.S. Korzhinskiy, Corresponding Members G.D. Afanas yev, Yu.A. Kuznetsov, A.A. Yeliseyev and others. The majority of lectures and reports were concerned with the definition of regularities of manifestation of magmatism in various regions of the Union, and peculiarities of their metallogeny. Yu.A. Kuznetsov and Yu.M. Sheynman reported on

Card 1/3

The Second All-Union Petrographic Conference

SOV-11-58-10-12/12

general questions in the development of magmatism. problem of genetic connection of endogenous mineralization with magmatism was the theme of many reports, among them a collective report by the scientific collaborators of the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry of the AS USSR V.S. Koptev-Dvornikov, O.S. Polkvaya, M.G. Rub, I.Ye. Smorchkov and F.K. Shipulin and also the reports by Ye.A. Radkevich, I.G. Magak'yan and S.S. Mkrtchyan (Institute of Geology of the AS of Armenian SSR) and by M.P. Materikov (VIMS). G.S. Dzotsenidze, M.A. Kashkay, Sh.A. Azizbekov, M.A. Favorskaya and A.M. Kalik reported on the problem of the correlation of ore-bearing with effusive formations. A.P. Lebedev and G.G. Moor reported on the magmatic formations of the plateau regions. O.A. Vorob'yeva, V.K. Monich and G.P. Bagdasaryan reported on peculiarities of manifestations of alkaline magmatism in certain regions. The physico-chemical trend in the study of magmatic and post-magmatic formations was represented in reports by D.S. Korzhinskiy, V.A. Maslennikov and I.G. Govorov. The problem of genezis, the distribution of metamorphic rocks and their classification were the themes of reports by the Ukrainian geo-

Card 2/3

The Second All-Union Petrographic Conference

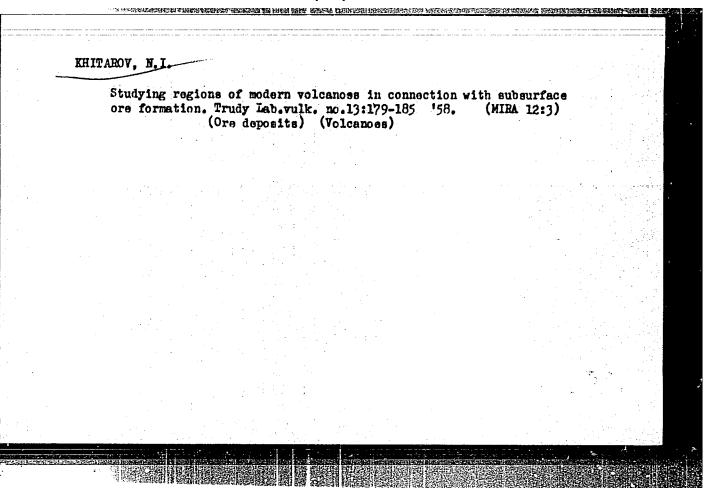
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logists N.P. Semenenko, Ya.N. Belevtsev and S.P. Rodionov.-B.V. Zalesskiy, B.P. Belikov and Yu.A. Rozanov reported on physical, chemical and mechanical properties of rocks and on methods of their study. N.I. Khitarov reported on "Problems of Petrogenezis in the Light of Experimental Data", and G.D. Afanas'yev reported on "Some Data on the State of the Study of the Absolute Age of Rocks and Their Geological Importance". Finally a resolution was adopted in which the conference, after having enumerated the achievements of Soviet petrographers, complained about the shortage of laboratories for petrographers and stressed the importance of the further study of magmatic processes.

1. Geology--USSR

Card 3/3

USCOMM-DC-55822



VIODAVETS, V.I., red.; DERGUNOV, I.D., red. [deceased]; IVANOV, V.V., red.; MAKARENKO, F.A., red.; KHITAROV, N.I., red.; GESSEN, L.V., red.1zd-va; GUSEVA, I.N., tekhn.red.

[Problems in geothermy and practical utilization of the earth's heat; transactions of the First All-Union Conference on Geothermic Research, March 1956] Problemy geotermii i prakticheskogo ispol'zovaniia tepla zemli; trudy Pervogo Vsesoiuznogo sovashchaniia po geotermicheskim issledovaniiam, mart 1956 g. Moskva. Izd-vo Akad.nauk SSSR. Vol.1. 1959. 254 p. (MIRA 12:10)

1. Leboratoriya vulkanologii AN SSSR (for Vlodavets). 2. Institut fiziki Zemli AN SSSR im. 0. Yu. Shmidta (for Dergunov [deceased]).

(Earth temperature—Congresses)

SOV/7-59-5-1/14

AUTHORS:

Khitarov, N. I., Lebedev, Ye. B., Rengarten, Ye. V.,

Arsen yeva, R. V.

TITLE:

Comparative Characterization of the Solubility of Water in Basaltic and Granitic Melts (Sravnitel'naya kharakteristika rastvorimosti vody v bazal'tovom i granitnom rasplavakh)

PERIODICAL:

Geokhimiya, 1959, Nr 5, pp 387 - 396 (USSR)

ABSTRACT:

The laboratory assistants P. V. Boytsov and E. Ye. Filippova took part in the experiments. An apparatus which had been worked out by B. A. Korndorf and N. I. Khitarov was used. This apparatus is described in short (Figs 1 and 2). Pressures of 1000, 2000 and 3000 kg/cm² and temperatures of 900 and 1000° were used for the investigation. The samples were heated first up to 105°, then up to 1200° in order to determine water; the weighed portion amounted to 200-370 mg, the weighing out of the Pregel tube was carried out on the microbalance ADV-200. The sample material was pulverized rock, i.e. basalt of the side crater Kirgurich of the Klyuchevskiy volcano from the eruption in 1932, put at the authors' disposal by V. I. Vlodavtsev, Laboratoriya vulkanologii Akademii nauk SSSR (Laboratory of Volcanology of the Academy of Sciences, USSR); further-

Card 1/3

Comparative Characterization of the Solubility of Water in Basaltic and Granitic Melts

507/7-59-5-1/14

more El'dzhurtinskiy granite, a porphyritic biotite granite of the northern Caucasus. The rocks were investigated under the microscope, the chemical composition is given (Table 1). A total of almost 30 determinations were carried out. A series with basalt was investigated 2 1/2 hours at 900° and 3000 kg/cm2 the chilled melts contained an average of 3.2% water. The samples of the second series were heated 1 hour up to 1000° then 2 1/2 hours up to 900°, the pressure amounted again up to 3000 kg/cm². The basalt of these samples contained an average of 3.6%, granite 6.7% water (Table 2). Further investigations were carried out under different conditions (Table 3). The basalt melt contains 5.4% water at 1000° and 3000 kg/cm², the granite melt 5.7% water. It is possible that the water content does not depend on the chemical composition at higher temperatures (Fig 9). A comparison with the values of Goranson (Refs 1 and 2) in figure 5 shows that the values of Goranson are higher by approximately one half . The values of the authors are probably confirmed by the curve of Johns and more realistic, as Burnham (Ref 4). The chilled melts were investigated under the

Card 2/3

Comparative Characterization of the Solubility of Water in Basaltic and Granitic Melts

SOV/7-59-5-1/14

microscope; granite was transformed into light-grey glass with cracks and a small quantity of hematite (Fig 6), basalt into glass and hornblende with a small quantity of magnetite (Fig 7). Pyroxene insets were almost not changed at all, the olivines had a hornblende seam (Fig 8). Since hornblende usually does not occur in basalt as well as in diabases and dolerites, it is assumed that the basaltic magmas have only low water content. Furthermore it is assumed that basaltic magma consists at 900° and 3000 kg/cm² of a comparatively easily mobile melt and olivine- and pyroxene insets. There are 9 figures, 3 tables, and 10 references, 3 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR, Moscow)

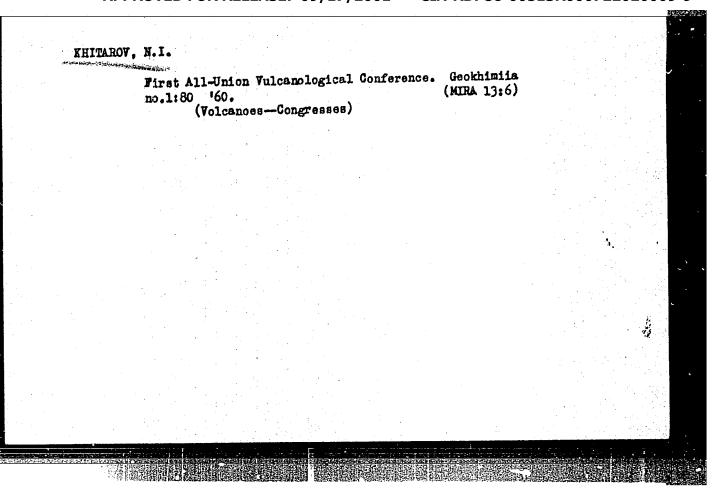
SUBMITTED: April 15, 1959

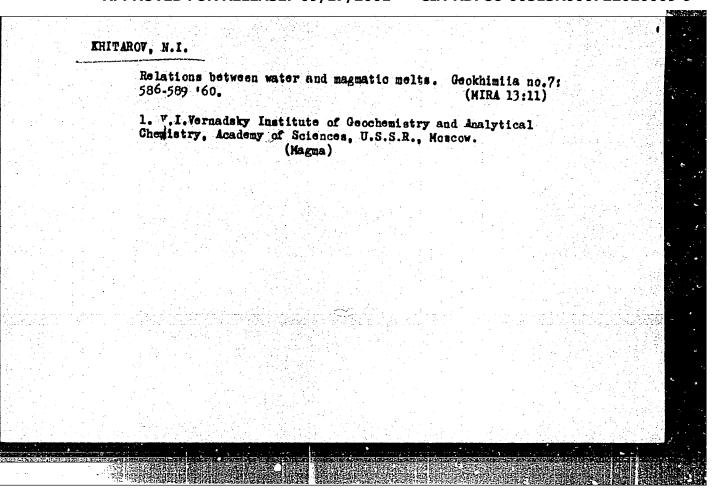
Card 3/3

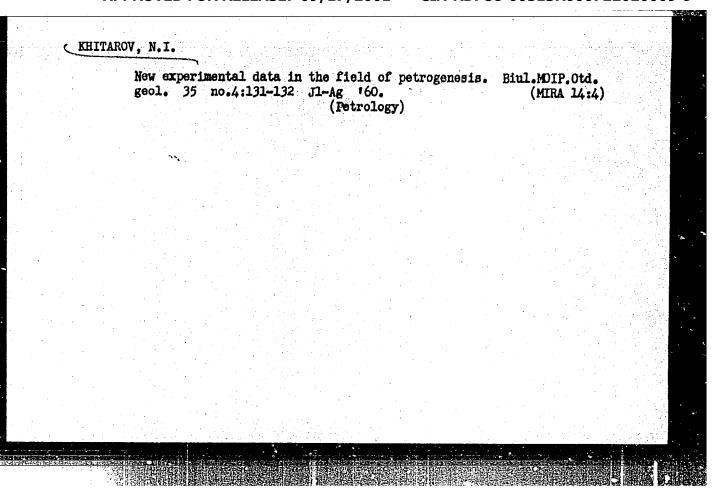
VINOGRADOV, A.P., otv.red.; SAUKOV, A.A., red.; VLASOV, K.A., red.;
SHCHERBINA, V.V., red.; EHITAROV, N.I., red.; OVCHINNIKOVA, S.V.,
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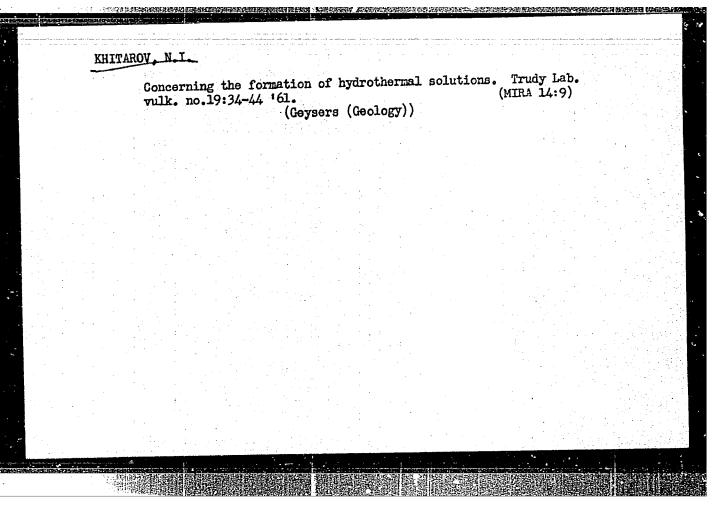
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